

# MOVIE FIELD TRIP PBL

**GOAL:** I can use parentheses, brackets, and braces to create expressions.

## MOVIE THEATER FIELD TRIP SPECIAL PRICE GUIDE

Movie Ticket	\$1.00/student
<b>Drinks</b>	Small \$3.00 Medium \$4.00 Large \$4.50
<b>Popcorn</b>	Small \$2.00 Medium \$2.50 Large \$3.00
<b>Candy</b>	Small \$2.00 Medium \$3.00 Large \$5.00
<b>Meal Deal</b> <i>1 small drink, popcorn, &amp; candy</i>	\$6.50

## YOUR TASK:

The 5<sup>th</sup> grade students at Grand Oak and two other local schools have been invited to view a new movie in the Little Theater. The problem is that only 187 students can fit into the Theater at one time, so there will be 2 showings. The following is a list of class sizes. Figure the number of students out of each class that can attend each of the scheduled times. Write expressions that you would use to solve each field trip problem below!

### Grand Oak

Mrs. Lippard 28  
Mr. Deinert 24

Mrs. Royster 26  
Mrs. Cartwright 28

### Davidson

Mr. Underhill 30  
Mrs. Berlin 31  
Mrs. Ellis 28

Mrs. Stevens 29  
Mr. Leland-Jones 30

### Barnette

Mrs. Dugle 31  
Mrs. Bigler 26

Mrs. McKenley 30  
Mrs. Smith 30

- Will all of the classes be able to attend in 2 showings or will it take 3? \* Don't forget to include seats for teachers. Estimate to show the reasonableness of your answer.
- If two classes are gone on a field trip, will all the classes be able to attend on 2 showings?
- If 2 classes are gone on a field trip, which classes would fit in the theater for the first showing? Which classes will fit into the theater for the second showing? Show how you arrived at your answer.
- If the classes must attend by school, as much as possible, which classes would attend each showing. Show your answers in fraction form. Then convert each fraction to a decimal.
- You have \$7.50 to spend, what is the best buy for your money, and can you save any money?
- There are 3 lines when your class gets to the theater. Line one must wait to order individually for their concessions. It takes 25 seconds to get through the line and there are 20 students in line.
- Line 2 is ordering the special deal and only takes 12 seconds to get through. There are 32 students in this line.
- Line 3 is just going into the movie without treats. They take 8 seconds to get through and there are 55 students in line. Which line would you choose and explain the reasons for your choice.

# ASSESS YOURSELF!

	<b>COMPUTATION</b>	<b>ORGANIZATION</b>	<b>QUALITY</b>	<b>COMMUNICATION/ COLLABORATION</b>
<b>4</b>	All my work is shown and there is evidence that I am accurate, flexible with strategies, and clearly solved the problem.	I have shown my work in a neat way that makes it clear for others to easily understand my thinking.	I have taken extra time to reflect on questions, critically think about the problem, and my work reflects the extra time.	I have communicated my thinking clearly in my product of learning and I have collaborated with others on different strategies in order to come up with the best solution.
<b>3</b>	Most of my work is shown and there is evidence that I am accurate, somewhat flexible with strategies, and solved the problem.	I have shown my work in a neat way that allows others to see my thinking.	I have taken time to reflect on questions, critically think about the problem, and my work mostly reflects the extra time.	I have communicated my thinking in my product of learning and I have collaborated with others on different strategies in order to come up with a solution.
<b>2</b>	Some my work is shown and there is evidence that I am accurate, neat, and I somewhat solved the problem.	I have shown my work in a way where others can try to interpret my thinking.	I have reflected and thought to understand the problem, and my work reflects some extra time.	I have somewhat communicated my thinking clearly in my product of learning.
<b>1</b>	This is little work and evidence that accuracy and neatness should have been more of a focus.	I have shown minimal work/it is difficult to try and see my thinking.	I have misunderstood the problem and my work reflects my confusion.	I have communicated my thinking unclearly in my product of learning.

**CIRCLE ON THE RUBRIC THE SCORE THAT YOUR WORK DEMONSTRATES:**

**MY TOTAL SELF-ASSESSMENT SCORE \_\_\_\_\_/16**